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-	690	(current adj source) and (photodiode or photodetector) and (differential adj amplifier)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/09/09 07:08
-	2626	(current adj source) and (sensor or photodiode or photodetector) and (differential adj amplifier)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/09/09 07:09
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-	143	(current adj source) and (sensor or photodiode or photodetector) and (differential adj amplifier)	EPO; JPO; DERWENT; IBM TDB	2002/09/09 10:12
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- 1 Teaching about photodetection noise sources in the laboratory.
- 2 A new MOS imager using photodiode as current source.
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## INSPEC - 1969 to date (INZZ)

## Accession number &amp; update

5914168, A9812-0150-035, B9806-0120-064; 980519.

## Title

Teaching about photodetection noise sources in the laboratory.

## Author(s)

Jacobowicz-L; Roch-J-F; Poizat-J-P; Grangier-P.

## Author affiliation

Inst d'Opt, Ecole Superieure d'Opt, Orsay, France.

## Source

Fifth International Topical Meeting on Education and Training in Optics, Delft, Netherlands, 19-21 Aug. 1997.  
Sponsors: SPIE, ICO, Quantoptica Found., Philips Res. Centre for Tech. Training, TNO, ODME.  
In: Proceedings-of-the-SPIE-The-International-Society-for-Optical-Engineering (USA), vol.3190, p.166-78, 1997.

## CODEN

PSISDG.

## ISSN

ISSN: 0277-786X, CCCC: 0277-786X/97/ (\$10.00).

## Availability

SICI: 0277-786X(1997)3190L:166:TAPN; 1-#.

## Publication year

1997.

## Language

EN.

## Publication type

CPP Conference Paper, J Journal Paper.

## Treatment codes

X Experimental.

## Abstract

The authors describe simple experiments that allow students to observe, identify, understand and measure different noise sources

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**1 A nonlinear optical preamplifier for sensing applications***Hayes, M.J.*Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on , Volume: 49  
Jan. 2002

Page(s): 1 -9

[\[Abstract\]](#) [\[PDF Full-Text \(296 KB\)\]](#) **JNL****2 A 2.5 Gb/s low-power CMOS optoelectronic transceiver for optical communications***Cheng-Ta Chan; Jen-Shang Hwang; Chen, O.T.-C.*Circuits and Systems, 2001. MWSCAS 2001. Proceedings of the 44th IEEE 2001 Midwest Sympo  
Volume: 1 , 2001

Page(s): 381 -384 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(302 KB\)\]](#) **CNF****3 Bandwidth extension in CMOS with optimized on-chip inductors***Mohan, S.S.; Hershenson, M.D.M.; Boyd, S.P.; Lee, T.H.*

Solid-State Circuits, IEEE Journal of , Volume: 35 Issue: 3 , March 2000

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[\[Abstract\]](#) [\[PDF Full-Text \(352 KB\)\]](#) **JNL****4 Laser diode driver with 5-decade range***Rudd, E.P.*

Instrumentation and Measurement, IEEE Transactions on , Volume: 49 Issue: 1 , Feb. 2000

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**5 Analytical expression for the equivalent input noise current spectral density of HBT distributed amplifier based optical receivers**

*Iqbal, A.; Darwazeh, I.Z.*

Opto-Electronic Interfacing at Microwave Frequencies (Ref. No. 1999/045), IEE Colloquium on , 1  
Page(s): 2/1 -210

[\[Abstract\]](#) [\[PDF Full-Text \(700 KB\)\]](#) CNF

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**6 A 2.125 Gbaud 1.6 k/spl Omega/ transimpedance preamplifier in 0.5 /spl mu/m CMOS**

*Mohan, S.S.; Lee, T.H.*

Custom Integrated Circuits, 1999. Proceedings of the IEEE 1999 , 1999  
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**7 Bootstrapping techniques to improve the bandwidth of transimpedance amplifiers**

*Hoyle, C.; Peyton, A.*

Analog Signal Processing (Ref. No. 1998/472), IEE Colloquium on , 1998  
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**8 Noise analysis for position-sensitive detectors**

*Narayanan, C.; Buckman, A.B.; Busch-Vishniac, I.*

Instrumentation and Measurement, IEEE Transactions on , Volume: 46 Issue: 5 , Oct. 1997  
Page(s): 1137 -1144

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**9 The opto-electronic high-frequency transconductor and circuit applications**

*Vanisri, T.; Toumazou, C.*

RF Design Scene, IEE Colloquium on , 1996  
Page(s): 2/1 -211

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**10 Integrated high frequency low-noise current-mode optical transimpedance preamplifiers practice**

*Vanisri, T.; Toumazou, C.*

Solid-State Circuits, IEEE Journal of , Volume: 30 Issue: 6 , June 1995  
Page(s): 677 -685

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**11 Noise performance and chopper frequency in integrated micromachined chopper-detector**  
*Wolffenbuttel, R.F.; de Graaf, G.*

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Page(s): 451 -453

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**12 Low-noise photodiode-amplifier circuit**

*Hyypä, K.; Ericson, K.*

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Page(s): 362 -365

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**13 Analysis of the transistor-related noise in integrated p-i-n-HBT optical receiver front-end**

*Liu, Q.Z.; Pulfrey, D.L.; Jackson, M.K.*

Electron Devices, IEEE Transactions on , Volume: 40 Issue: 12 , Dec. 1993

Page(s): 2204 -2210

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**14 An InGaAs/InP p-i-n-JFET OEIC with a wing-shaped p<sup>+</sup>/InP layer**

*Park, K.-S.; Oh, K.-R.; Kim, J.-S.; Lee, Y.-T.; Kim, S.-J.; Kwon, Y.-S.*

IEEE Photonics Technology Letters , Volume: 4 Issue: 4 , April 1992

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**15 A new MOS imager using photodiode as current source**

*Kyomasu, M.*

Solid-State Circuits, IEEE Journal of , Volume: 26 Issue: 8 , Aug. 1991

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